

# United States Patent [19]

Koblitz et al.

[11] Patent Number: 4,504,231

[45] Date of Patent: Mar. 12, 1985

## [54] PROCESS FOR FILLING TEETH

[75] Inventors: Francis F. Koblitz, York; Jane L. Reichart, Hanover, both of Pa.

[73] Assignee: Dentsply Research & Development Corp., Milford, Del.

[21] Appl. No.: 470,177

[22] Filed: Apr. 11, 1983

### Related U.S. Application Data

[63] Continuation of Ser. No. 233,951, Feb. 17, 1981, abandoned.

[51] Int. Cl.<sup>3</sup> ..... A61K 6/08

[52] U.S. Cl. .... 433/228; 204/159.13; 260/998.11; 523/116; 523/117; 433/226

[58] Field of Search ..... 204/159.13, 159.22; 528/24, 21, 12; 526/279; 523/116, 117; 260/998.11; 433/226, 228

## [56] References Cited

### U.S. PATENT DOCUMENTS

3,084,436	4/1963	Landry .....	260/998.11
3,835,090	9/1974	Gander et al. ....	260/998.11
4,308,014	12/1981	Kawahara et al. ....	260/998.11
4,323,348	4/1982	Schmitz-Josten et al. ....	260/998.11
4,383,826	5/1983	Butler et al. ....	523/116

Primary Examiner—Lorenzo B. Hayes

Attorney, Agent, or Firm—Woodcock Washburn Kurtz Mackiewicz & Norris

## [57] ABSTRACT

Process for filling dental cavities with radiation curable silaneous adhesives comprising a polymerizable resin comprising at least 20% by weight of a polymerizable silane and optionally up to about 80% by weight of a polymerizable, ethylenically unsaturated material. According to a preferred embodiment, the polymerizable silane is either an acrylosilane or a vinyl silane.

6 Claims, No Drawings